



OIIPE

## RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/09/902,517

TIME: 16:16:54

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

# 5

3 <110> APPLICANT: Seilhamer, Jeffrey J.  
 4 Lewicki, John  
 5 Scarborough, Robert M.  
 6 Porter, Gordon J.  
 8 <120> TITLE OF INVENTION: IMMUNOASSAYS FOR HUMAN AND CANINE BRAIN  
 9 NATRIURETIC PEPTIDE  
 11 <130> FILE REFERENCE: 219002025213  
 13 <140> CURRENT APPLICATION NUMBER: 09/902,517  
 14 <141> CURRENT FILING DATE: 2001-07-09  
 16 <150> PRIOR APPLICATION NUMBER: 09/287,892  
 17 <151> PRIOR FILING DATE: 1999-04-07  
 19 <150> PRIOR APPLICATION NUMBER: 08/850,910  
 20 <151> PRIOR FILING DATE: 1997-05-05  
 22 <150> PRIOR APPLICATION NUMBER: 07/477,226  
 23 <151> PRIOR FILING DATE: 1990-02-08  
 25 <150> PRIOR APPLICATION NUMBER: 07/299,880  
 26 <151> PRIOR FILING DATE: 1989-01-19  
 28 <150> PRIOR APPLICATION NUMBER: 07/206,470  
 29 <151> PRIOR FILING DATE: 1988-06-14  
 31 <150> PRIOR APPLICATION NUMBER: 07/200,383  
 32 <151> PRIOR FILING DATE: 1988-05-31  
 34 <160> NUMBER OF SEQ ID NOS: 50  
 36 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 38 <210> SEQ ID NO: 1  
 39 <211> LENGTH: 26  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Unknown  
 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: A portion of human ANP and pBNP.  
 46 <400> SEQUENCE: 1  
 47 Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser  
 48 1 5 10 15  
 49 Gly Leu Gly Cys Lys Val Leu Arg Arg His  
 50 20 25  
 52 <210> SEQ ID NO: 2  
 53 <211> LENGTH: 25  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Unknown  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: A portion of human ANP and the pBNP.  
 60 <400> SEQUENCE: 2  
 61 Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser  
 62 1 5 10 15

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,517

DATE: 01/30/2002

TIME: 16:16:54

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

63 Gly Leu Gly Cys Asn Ser Phe Arg Tyr

64                   20                   25

66 &lt;210&gt; SEQ ID NO: 3

67 &lt;211&gt; LENGTH: 26

68 &lt;212&gt; TYPE: PRT

69 &lt;213&gt; ORGANISM: Unknown

71 &lt;220&gt; FEATURE:

72 &lt;223&gt; OTHER INFORMATION: A portion of human ANP and pBNP.

74 &lt;400&gt; SEQUENCE: 3

75 Asp Ser Gly Cys Phe Gly Arg Arg Leu Asp Arg Ile Gly Ser Leu Ser

76   1                   5                   10                   15

77 Gly Leu Gly Cys Asn Val Leu Arg Arg Tyr

78                   20                   25

80 &lt;210&gt; SEQ ID NO: 4

81 &lt;211&gt; LENGTH: 6

82 &lt;212&gt; TYPE: PRT

83 &lt;213&gt; ORGANISM: Unknown

85 &lt;220&gt; FEATURE:

86 &lt;223&gt; OTHER INFORMATION: An additional N-terminal amino acid extension.

88 &lt;400&gt; SEQUENCE: 4

89 Ser Pro Lys Thr Met Arg

90   1                   5

92 &lt;210&gt; SEQ ID NO: 5

93 &lt;211&gt; LENGTH: 17

94 &lt;212&gt; TYPE: PRT

95 &lt;213&gt; ORGANISM: Unknown

97 &lt;220&gt; FEATURE:

98 &lt;223&gt; OTHER INFORMATION: Peptides having natriuretic activity.

100 &lt;221&gt; NAME/KEY: VARIANT

101 &lt;222&gt; LOCATION: (5)...(5)

102 &lt;223&gt; OTHER INFORMATION: Xaa = Arg or Lys

104 &lt;221&gt; NAME/KEY: VARIANT

105 &lt;222&gt; LOCATION: (6)...(6)

106 &lt;223&gt; OTHER INFORMATION: Xaa = Leu or Met

108 &lt;221&gt; NAME/KEY: VARIANT

109 &lt;222&gt; LOCATION: (10)...(10)

110 &lt;223&gt; OTHER INFORMATION: Xaa = Gly or Ser

112 &lt;221&gt; NAME/KEY: VARIANT

113 &lt;222&gt; LOCATION: (12)...(12)

114 &lt;223&gt; OTHER INFORMATION: Xaa = Leu or Ser

116 &lt;400&gt; SEQUENCE: 5

OK&gt; 117 Cys Phe Gly Arg Xaa Xaa Asp Arg Ile Xaa Ser Xaa Ser Gly Leu Gly

118   1                   5                   10                   15

119 Cys

122 &lt;210&gt; SEQ ID NO: 6

123 &lt;211&gt; LENGTH: 4

124 &lt;212&gt; TYPE: PRT

125 &lt;213&gt; ORGANISM: Unknown

127 &lt;220&gt; FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,517

DATE: 01/30/2002

TIME: 16:16:54

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

128 <223> OTHER INFORMATION: R1  
 130 <221> NAME/KEY: VARIANT  
 131 <222> LOCATION: (1)...(1)  
 132 <223> OTHER INFORMATION: Xaa = His, Arg or Gln  
 134 <221> NAME/KEY: VARIANT  
 135 <222> LOCATION: (2)...(2)  
 136 <223> OTHER INFORMATION: Xaa = Lys, Asp or Gly  
 138 <400> SEQUENCE: 6

OK -&gt;

139 Xaa Xaa Ser Gly

140 1

142 &lt;210&gt; SEQ ID NO: 7

143 &lt;211&gt; LENGTH: 5

144 &lt;212&gt; TYPE: PRT

145 &lt;213&gt; ORGANISM: Unknown

147 &lt;220&gt; FEATURE:

148 &lt;223&gt; OTHER INFORMATION: R1

150 &lt;221&gt; NAME/KEY: VARIANT

151 &lt;222&gt; LOCATION: (1)...(1)

152 &lt;223&gt; OTHER INFORMATION: Xaa = Met or Val

154 &lt;221&gt; NAME/KEY: VARIANT

155 &lt;222&gt; LOCATION: (2)...(2)

156 &lt;223&gt; OTHER INFORMATION: Xaa = His, Arg or Gln

158 &lt;221&gt; NAME/KEY: VARIANT

159 &lt;222&gt; LOCATION: (3)...(3)

160 &lt;223&gt; OTHER INFORMATION: Xaa = Lys, Asp or Gly

OK -&gt;

162 &lt;400&gt; SEQUENCE: 7

163 Xaa Xaa Xaa Ser Gly

164 1 5

166 &lt;210&gt; SEQ ID NO: 8

167 &lt;211&gt; LENGTH: 6

168 &lt;212&gt; TYPE: PRT

169 &lt;213&gt; ORGANISM: Unknown

171 &lt;220&gt; FEATURE:

172 &lt;223&gt; OTHER INFORMATION: R1

174 &lt;221&gt; NAME/KEY: VARIANT

175 &lt;222&gt; LOCATION: (1)...(1)

176 &lt;223&gt; OTHER INFORMATION: Xaa = Thr or Met

178 &lt;221&gt; NAME/KEY: VARIANT

179 &lt;222&gt; LOCATION: (2)...(2)

180 &lt;223&gt; OTHER INFORMATION: Xaa = Met or Val

182 &lt;221&gt; NAME/KEY: VARIANT

183 &lt;222&gt; LOCATION: (3)...(3)

184 &lt;223&gt; OTHER INFORMATION: Xaa = His, Arg or Gln

186 &lt;221&gt; NAME/KEY: VARIANT

187 &lt;222&gt; LOCATION: (4)...(4)

188 &lt;223&gt; OTHER INFORMATION: Xaa = Lys, Asp or Gly

OK -&gt;

190 &lt;400&gt; SEQUENCE: 8

191 Xaa Xaa Xaa Xaa Ser Gly

192 1 5

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,517

DATE: 01/30/2002

TIME: 16:16:54

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

194 <210> SEQ ID NO: 9  
 195 <211> LENGTH: 7  
 196 <212> TYPE: PRT  
 197 <213> ORGANISM: Unknown  
 199 <220> FEATURE:  
 200 <223> OTHER INFORMATION: R1  
 202 <221> NAME/KEY: VARIANT  
 203 <222> LOCATION: (2)...(2)  
 204 <223> OTHER INFORMATION: Xaa = Thr or Met  
 206 <221> NAME/KEY: VARIANT  
 207 <222> LOCATION: (3)...(3)  
 208 <223> OTHER INFORMATION: Xaa = Met or Val  
 210 <221> NAME/KEY: VARIANT  
 211 <222> LOCATION: (4)...(4)  
 212 <223> OTHER INFORMATION: Xaa = His, Arg or Gln  
 214 <221> NAME/KEY: VARIANT  
 215 <222> LOCATION: (5)...(5)  
 216 <223> OTHER INFORMATION: Xaa = Lys, Asp or Gly  
 218 <400> SEQUENCE: 9

219 Lys Xaa Xaa Xaa Xaa Ser Gly

220 1 5

222 <210> SEQ ID NO: 10  
 223 <211> LENGTH: 8  
 224 <212> TYPE: PRT  
 225 <213> ORGANISM: Unknown  
 227 <220> FEATURE:  
 228 <223> OTHER INFORMATION: R1  
 230 <221> NAME/KEY: VARIANT  
 231 <222> LOCATION: (3)...(3)  
 232 <223> OTHER INFORMATION: Xaa = Thr or Met  
 234 <221> NAME/KEY: VARIANT  
 235 <222> LOCATION: (4)...(4)  
 236 <223> OTHER INFORMATION: Xaa = Met or Val  
 238 <221> NAME/KEY: VARIANT  
 239 <222> LOCATION: (5)...(5)  
 240 <223> OTHER INFORMATION: Xaa = His, Arg or Gln  
 242 <221> NAME/KEY: VARIANT  
 243 <222> LOCATION: (6)...(6)  
 244 <223> OTHER INFORMATION: Xaa = Lys, Asp or Gly  
 246 <400> SEQUENCE: 10

247 Pro Lys Xaa Xaa Xaa Xaa Ser Gly

248 1 5

250 <210> SEQ ID NO: 11  
 251 <211> LENGTH: 9  
 252 <212> TYPE: PRT  
 253 <213> ORGANISM: Unknown  
 255 <220> FEATURE:  
 256 <223> OTHER INFORMATION: R1  
 258 <221> NAME/KEY: VARIANT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,517

DATE: 01/30/2002

TIME: 16:16:54

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

259 <222> LOCATION: (4)...(4)  
 260 <223> OTHER INFORMATION: Xaa = Thr or Met  
 262 <221> NAME/KEY: VARIANT  
 263 <222> LOCATION: (5)...(5)  
 264 <223> OTHER INFORMATION: Xaa = Met or Val  
 266 <221> NAME/KEY: VARIANT  
 267 <222> LOCATION: (6)...(6)  
 268 <223> OTHER INFORMATION: Xaa = His, Arg or Gln  
 270 <221> NAME/KEY: VARIANT  
 271 <222> LOCATION: (7)...(7)  
 272 <223> OTHER INFORMATION: Xaa = Lys, Asp or Gly  
 274 <400> SEQUENCE: 11  
 275 Ser Pro Lys Xaa Xaa Xaa Xaa Ser Gly  
 276 1 5  
 278 <210> SEQ ID NO: 12  
 279 <211> LENGTH: 4  
 280 <212> TYPE: PRT  
 281 <213> ORGANISM: Unknown  
 283 <220> FEATURE:  
 284 <223> OTHER INFORMATION: R2  
 286 <221> NAME/KEY: VARIANT  
 287 <222> LOCATION: (1)...(1)  
 288 <223> OTHER INFORMATION: Xaa = Asn or Lys  
 290 <400> SEQUENCE: 12  
 291 Xaa Val Leu Arg  
 292 1  
 294 <210> SEQ ID NO: 13  
 295 <211> LENGTH: 5  
 296 <212> TYPE: PRT  
 297 <213> ORGANISM: Unknown  
 299 <220> FEATURE:  
 300 <223> OTHER INFORMATION: R2  
 302 <221> NAME/KEY: VARIANT  
 303 <222> LOCATION: (1)...(1)  
 304 <223> OTHER INFORMATION: Xaa = Asn or Lys  
 306 <221> NAME/KEY: VARIANT  
 307 <222> LOCATION: (5)...(5)  
 308 <223> OTHER INFORMATION: Xaa = Arg or Lys  
 310 <400> SEQUENCE: 13  
 311 Xaa Val Leu Arg Xaa  
 312 1 5  
 314 <210> SEQ ID NO: 14  
 315 <211> LENGTH: 6  
 316 <212> TYPE: PRT  
 317 <213> ORGANISM: Unknown  
 319 <220> FEATURE:  
 320 <223> OTHER INFORMATION: R2  
 322 <221> NAME/KEY: VARIANT  
 323 <222> LOCATION: (1)...(1)

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/902,517

DATE: 01/30/2002

TIME: 16:16:55

Input Set : D:\21900-20252.txt

Output Set: N:\CRF3\01302002\I902517.raw

L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33